## INTERNATIONAL SEARCH REPORT

international application No.
PCT/KR2004/001006

A. CL	ASSIFICATION OF SUBJECT MATTER		
i i	C7 H01M 4/04		
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
IPC7 H01B1/08 C01B13/20 H01M4/58 H01M10/40			
Documentation combod sites the sites of the			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and Application for Invention since 1975			
Korean Utility Models and Application for Utility Models since 1975			
Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)			
NPS	S and a section (state	nto of data base and, where practicable, search ter	ms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*			
	war indication, where a	appropriate, of the relevant passages	Relevant to claim No.
Y US 5980786 A(Murata Manufacturing Co.,Ltd.) 9 Nove		November 1000	
	See the whole document	November 1999	1-16
Y	JP12-149923 A(Fuji Chem. Ind. Co. Ltd.) 30 May 2000 See Abstract and Claims		1-16
	See Abstract and Claims		
A	IIS 5059262 A/V-L-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		
71	A US 5958362 A(Kabushiki Kaisha Toyota Chuo Kenkyusho.) 28 September 1999 See the whole document		1-16
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A	A JP11-278848 A(Murata Manufacturing Co.,Ltd.) 12 October 1999 See Abstract and Claims		
			1
Further	documents are listed in the continuation of Box C.		
Special estegories of cited dearward			
"A" document defining the general state of the art which is not considered to be of particular relevance  "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the priority and the prio			al filing date or priority
E" earlier app	rucular relevance ilication or patent but published on or after the international	the principle or theory underlying the invention	nn l
filing date document which may throw doubts on priority claim(s) or which is		"X" document of particular relevance; the claimed considered novel or cannot be considered to	invention cannot be
cited to establish the publication date of citation or other		step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be	
special reason (as specified) O" document referring to an oral disclosure, use, exhibition or other		considered to involve an inventive step whe	n the document is
means  occument published prior to the international filing date but later		being obvious to a person skilled in the art	ents, such combination
than the priority date claimed "&" document member of the same patent family			
Date of the actual completion of the international search  Date of mailing of the international search report			
13 AUGUST 2004 (13.08.2004)		16 AUGUST 2004 (16.08.2004)	
Name and mailing address of the ISA/KR		Authorized officer	
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